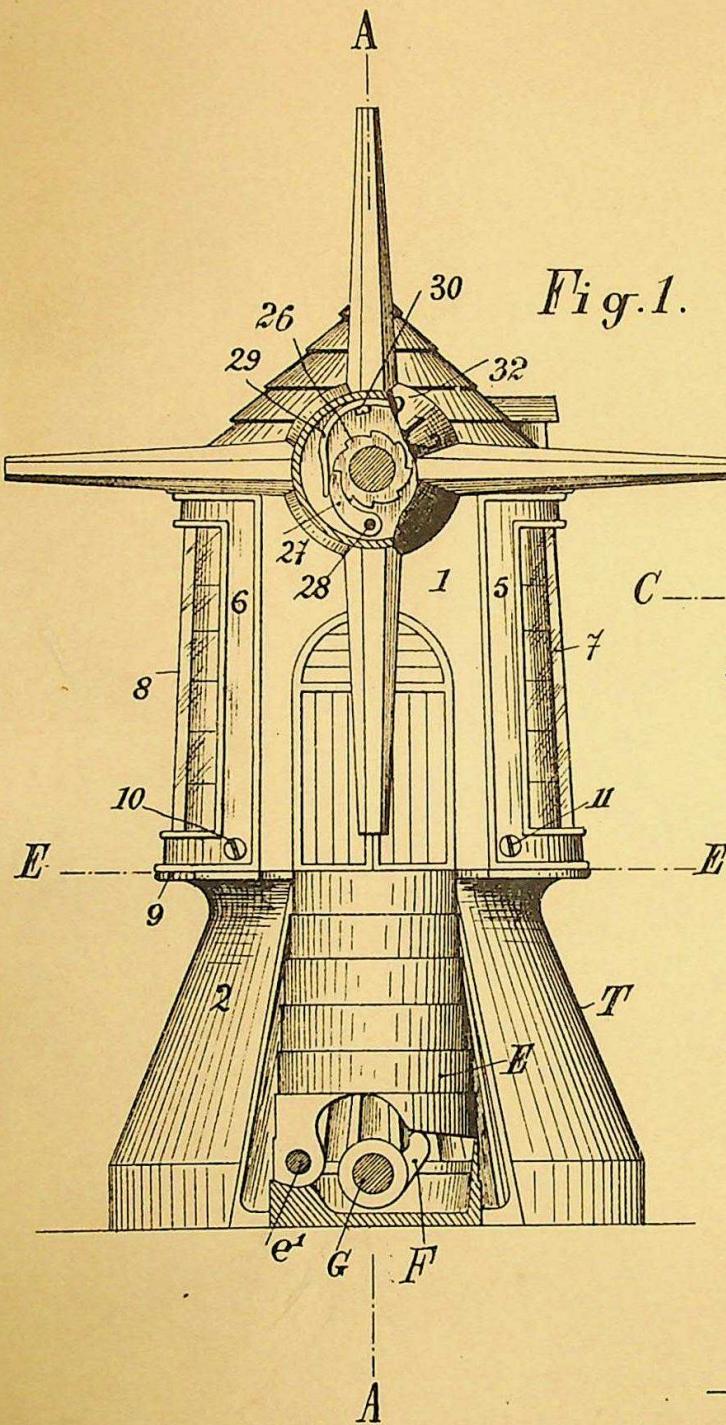


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MEUNIER'S COMPLETE SPECIFICATION.

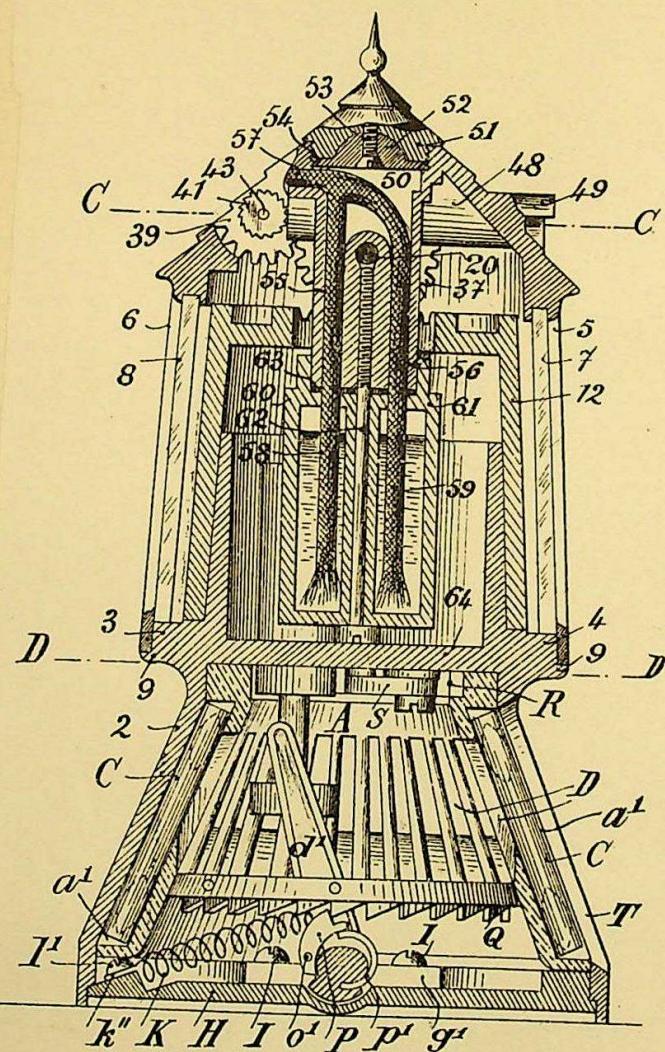
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10710

(2 SHEETS)
SHEET 1.

Fig. 3.



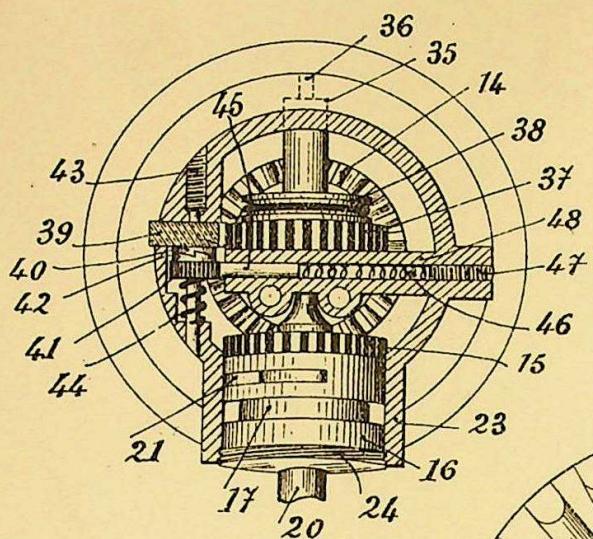


Fig. 4.

Fig. 6.

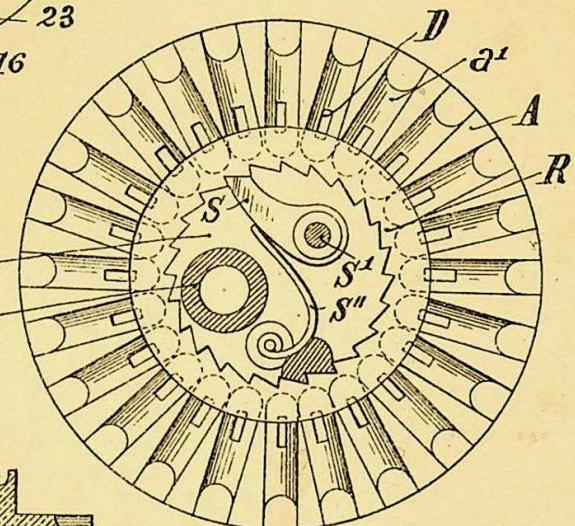


Fig. 5.

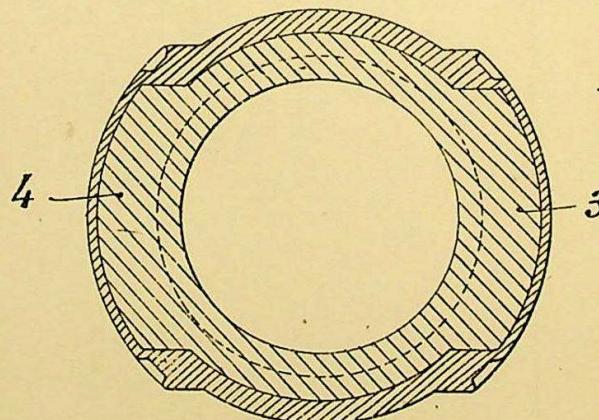
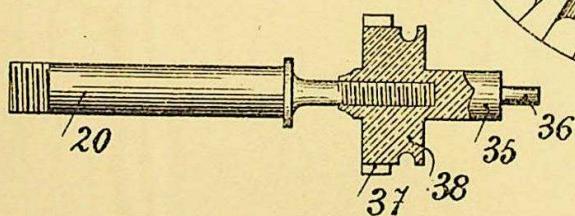


Fig. 7.

[This Drawing is a reproduction of the Original on a reduced scale.]

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A.D. 1914

DUPLICATE

Date of Application, 30th Apr., 1914
(Patent of Addition to No. 29,514, 22nd Dec., 1913)
Complete Specification Accepted, 10th June, 1915

COMPLETE SPECIFICATION.

Improvements in Apparatus for Advertising, Distributing
Playing and other similar purposes.

I, JULES ALEXANDRE MEUNIER, of 8, Boulevard Saint-Martin, Paris, in the Republic of France, Engineer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 This invention relates to improvements in or modifications of the invention described in the Specification of my prior Application for Letters Patent No. 29,514 of 1913, and has for its object to increase the utility of the apparatus and to improve the construction and operations of same.

According to one feature of the present invention a tinder box mechanism is 10 added to the apparatus and adapted for operation simultaneously with the advertisement bearing device instead of the distributing or vending mechanism described in the specification of the above-mentioned prior application.

Another feature of the present invention is that the magazine and the distributing mechanism embodied therein are of improved construction and arrangement, and are actuated in improved manner at the will of the operator independently of the advertisement and tinder box mechanism.

In order to clearly demonstrate these improvements, they have been shown in the accompanying drawings in which:—

Figure 1 is a front view with two partial sections, the one through the boss of 20 the wings for showing the internal mechanism, and the other through the steps, to show the construction of the distributing or vending mechanism;

Figure 2 is a total section on line A—A of Fig. 1;

Figure 3 is a total section on line B—B of Fig. 2. In this figure two articles are shown in place.

25 Figure 4 is a longitudinal section through C—C of Figs. 2 and 3;

Figure 5 is a plan view of the magazine for receiving the tooth-picks or other articles to be distributed; this view is taken in section on the line D—D of Figs. 2 and 3 to show the different parts of the locking device;

Figure 6 is a detail sectional view showing the driving shaft of the apparatus; 30 and

Figure 7 is a section on the line E—E of Figure 1 showing the mounting of the body on the base.

The upper part 1 of the body is held on its lower part 2 by means of bosses 3 and 4 on the part 2 which engage or lodge in appropriate recesses of the upper 35 part arranged for this purpose beneath the frames 5 and 6 which, besides covering the bosses 3 and 4, serve for holding the glass plates 7 and 8. The frames 5 and 6 form part of the body and are so arranged that the glass plates which they hold can easily be inserted. These glass plates 7 and 8 are arranged to glide on a circular projection 9 of the lower part 2 of the body. Thus the upper and 40 lower part of the body are definitely attached to one another and may further

[Price 6d.]

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be securedly fixed by means of screws 10 and 11 arranged at any convenient places and in convenient numbers.

The exterior of the apparatus thus constituted encloses the advertising, tinder box and distributing mechanisms the first of which consists of the following pieces and principal parts:—The advertisement carrying cylinder 12 rotating 5 on an appropriate sleeve 13 which is integral with the lower part 2 of the body, the said advertisement carrying cylinder being provided at its upper part with a toothed crown 14 meshing with a pinion 15 mounted by any convenient means on a cylinder 16, which latter is provided with a circular slot 17 for allowing the advertisement carrying cylinder 12 to rotate, and is hollowed in its centre 10 for receiving the ratchet wheel 18. This ratchet wheel 18 is secured by any convenient means on an axle 20 and is engaged by a pawl 21 pivoted on a screw or pin 22 and actuated by an appropriate spring fixed by any convenient means to the cylinder 16. The cylinder rests and rotates in a boss 23 integral with the upper part 1 of the body, and is retained in place by a threaded disc 24 having 15 a hole formed therein for the passage of the axle 20. On the front extremity of this axle 20 are mounted the wings 25 which are provided with a hollow boss 32 for receiving the ratchet wheel 26 engaging a pawl 27 mounted on a screw or pivot 28 and controlled by an appropriate spring 29 fixed by a screw 30 in the hollow boss, which latter is closed by an appropriate disc 31 formed with a hole 20 in its centre through which the axis 20 passes. The wings 25, the boss 32 of which is intended to receive a series of numbers for playing purposes, are held in place by a threaded nut 33 which is fixed to the front end of the axis 20 by means of a pin 34 the top part of which acts as an index finger or pointer.

The axis 20 comprises two parts, the front one of which is screwed into the 25 rear part 35 which abuts against the body part 1, is journaled thereon at 36, and is formed with a toothed pinion 37, for lighting the tinder box hereinafter described, and a driving pulley 38. The pinion 37 meshes with a partly toothed sector 39 which is arranged to serve as a fire protector and conforms at its non-toothed part with the outlines of the roof of the body. 30

The sector 39 is provided with a ratchet wheel 40 for actuating the fire striking cutter 41 by means of another ratchet wheel 42 attached to the cutter. The whole is mounted on an axis 43, as well as a spring 44 which by compression ensures a perfect locking of the cutter 41 to the sector 39 in the direction of the driving force. The cutter 41 in its movement strikes a stone 45 thus producing 35 sparks for lighting the tinder. The stone 45 is arranged so as to rub constantly against the cutter 41 by subjecting it to the pressure of a coiled spring 46, the compression of which spring can be regulated by a screw 47, the whole being arranged in a boss 48 forming part of the body part 1. At the outside of the body this boss is provided with a little sky-light 49 to impart a pleasant appearance to the apparatus, whereas in the interior of the upper part of the apparatus a stopper 51 is arranged which serves as a convenient ornament for the apparatus. This stopper may be provided with a tightening ring 52, fixed to it by means of a screw 53 or other appropriate means, so as to ensure tightness of the tinder box by means of the seating of the lower part 54 of the stopper on the hollow top 40 part 50 of the apparatus. At its lower end this hollow top part 50 is provided with two passages or receptacles 55 and 56 for receiving the wick 57 of the tinder box, which wick is preferably divided into two parts 58 and 59 which are reunited at their upper ends by any convenient means so as to form a single wick only at the lighting point. The division of the wick has for its purpose to ensure its 50 perfect soaking in the liquid fuel which is contained in the partitioned reservoir 60—61 removably secured to the part 50 by a screw 62 or any other appropriate means. The tightness of these two parts at their uniting point is ensured by a disc 63 or by any other convenient means.

The apparatus further comprises a coiled spring 65 for bringing the different 55 parts of the advertisement operating and tinder box mechanisms back into their original positions. The spring is contained in a tubular chamber 66 which is

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arranged in an internal partition 64 of the lower part 2 of the body. The chamber 66 is provided with an upper closed end or cover against which the spring 65 rests, and said end or cover serves as a guide for the rod 67 which passes through the spring. This rod 67 is hollowed for receiving the wire 68 which is fixed to the pulley 38 by any convenient means so as to cause a compression of the spring 65 when said pulley is rotated by the movement of the wings. For this purpose, the rod 67 is provided with an extension 70 serving as an abutment for the lower end of the spring 65, and with a collar and regulating screw 69 for adjusting the position of the wire 68 in the rod 67.

The distributing mechanism, which is lodged in the lower part 2 of the body, comprises a hollow drum-like magazine A provided at its periphery with a number of chambers or recesses a^1 of sufficient size for receiving the tooth-picks or other articles C. These chambers a^1 are each provided with a disengaging slot D through which the ejecting arm d^1 passes, for ejecting the articles one after another, under the action of pressure exerted on the main step E which moves between two other steps and turns on a pin e^1 . This step E actuates, by means of a cam F, the eccentric rock shaft G mounted in the bearings g^1 and g^{11} secured on the base H of the apparatus by means of screws I or by other appropriate means. On the shaft G is mounted the ejecting arm d^1 , the lower part of which arm is given an appropriate form to allow its being fixed to the shaft by means of a screw i^1 or the like, and is formed with lugs J to which an eyelet k^1 at one end of a spring K is secured by means of a screw L. An eyelet k^{11} at the other extremity of the spring K is fixed to the bottom H of the apparatus by means of a screw l^1 , whereas the bottom of the apparatus is itself attached on one side to the lower part 2 of the body by means of a flange M which enters an appropriate recess arranged in the part 2, and on the other side by an extension m^1 hinged to the part 2 by means of a screw N, bolt or the like. To the shaft G at o is also secured a pawl P pivoted thereto at o^1 , which pawl is actuated by a spring p^1 and engages with ratchet teeth Q which may be integral with or secured to the magazine A. This magazine A, resting and rotating on the base H, is provided with a second set of ratchet teeth R for avoiding backward movements by engagement with the pawl S pivoted on screw S^1 and actuated by a spring S^{11} mounted by any convenient means on the part 64 of the lower part 2 of the body. For allowing the ejection of the articles the lower part 2 is provided with an aperture T arranged at any convenient place, but preferably on the right side.

The apparatus operates in the following manner:—In order to obtain a feeding of the liquid fuel into the tinder box, the stopper 51 has to be unscrewed and the receptacle 60—61 filled by pouring the liquid into the hollow space 50. If this has been accomplished, all that is necessary to obtain a spark is to give a quarter clockwise turn to the wings 25. The wings in their movement cause the pawl 27 to engage the ratchet wheel 26, the shaft 20 is rotated, the ratchet wheel 18 engages the pawl 21 and rotates the cylinder 16 carrying the pinion 15, and the latter rotates the advertisement carrying cylinder 12 by means of the toothed crown 14 and thus changes the advertisement. On the same movement of the shaft 20 the pinion 37 is rotated and turns the sector 39 and, through the ratchet wheels 40 and 42, the cutter 41 which produces the necessary spark for lighting the wick 57 of the tinder device. When the wings are released these, as well as the parts which they drive, return into their initial positions under the action of the spring 65 attached to the pulley 38.

To use the apparatus for playing purposes, it is sufficient to turn the wings in an opposite or anti-clockwise direction.

As a distributing apparatus the same works in the following manner:—

When pressure is exerted on the step E the latter partially turns, by means of the cam F, the shaft G on which the ejecting arm d^1 is fixed. In its semi-circular movement the shaft G partially turns, by means of the pawl P engaging the teeth Q, the circular magazine A so as to bring one of the articles therein before the aperture T, from which it is ejected by means of the arm d^1 which

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strikes it exactly at the moment when it is before said aperture. Simultaneously the pawl P releases the ratchet teeth Q whereas the retaining pawl S engages the ratchet teeth R. When the pressure on the step E ceases, all the parts excepting the magazine are brought back into their initial positions by means of the spring K.

5

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. An improvement in or modification of the invention claimed in the Specification of prior Application for Letters Patent, No. 29,514/13, according to 10 which a tinder box mechanism is provided and operated by the driving member and drive shaft.
2. Apparatus as claimed above, in which the tinder box mechanism is operated simultaneously with an advertisement-bearing device.
3. Apparatus as claimed above, in which the tinder box mechanism and the 15 advertisement-bearing device are disposed in one part of the casing or body of the apparatus, whilst a distributing or vending mechanism is disposed in another part of said casing or body secured to the first part.
4. Apparatus as claimed in Claim 1, in which the tinder box mechanism comprises a toothed pinion on the drive shaft, a partly toothed sector meshed 20 with said pinion, a cutter wheel adapted to be locked by a one-way clutch device to said sector, a stone in contact with said cutter wheel, and a wick dipping into a detachable liquid fuel reservoir.
5. Apparatus as claimed above, in which a spring is adjustably connected to a pulley on the drive shaft for the purpose of returning the tinder box and the 25 advertisement moving mechanisms to their normal positions after operation.
6. Apparatus as claimed in Claim 3, in which the distributing mechanism includes a hollow drum-like magazine formed around its periphery with a plurality of chambers or recesses for receiving the articles to be distributed, each chamber or recess being provided with a disengaging slot, and means for turning said 30 magazine.
7. Apparatus as claimed in the preceding claim in which the distributing mechanism includes a rock shaft, an ejecting arm on said shaft adapted to be pressed in turn through the disengaging slots communicating with the chambers or recesses in the magazine, and a cam also on said shaft adapted to be 35 engaged by a manually operated member to rock the shaft and ejecting arm.
8. In apparatus as claimed in the preceding claim, a pawl pivoted on the rock shaft engaging with teeth on the magazine, a second set of teeth on said magazine, and a pawl engaging said teeth for the purposes described.
9. The improved combined advertising, distributing and playing apparatus 40 constructed as described with reference to the accompanying drawings.

Dated this 30th day of April, 1914.

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